Figure 1: Product Parameters that Influence Perfume Performance in Diluted PW Products

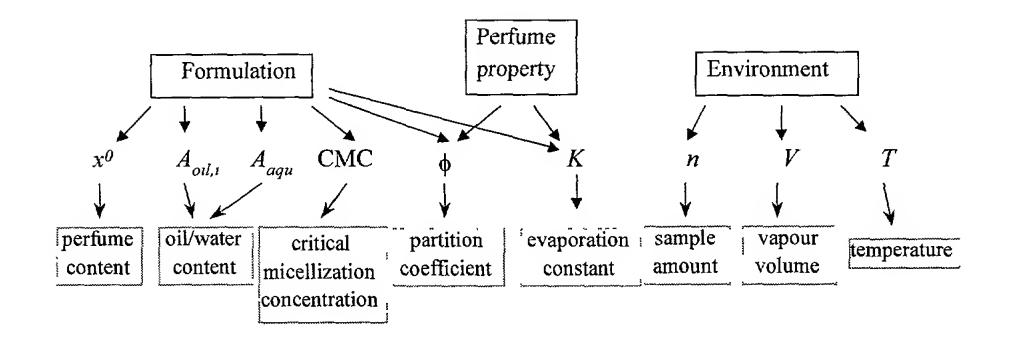
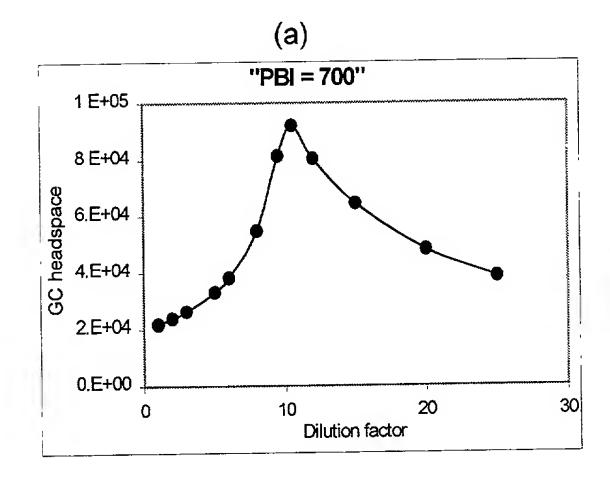
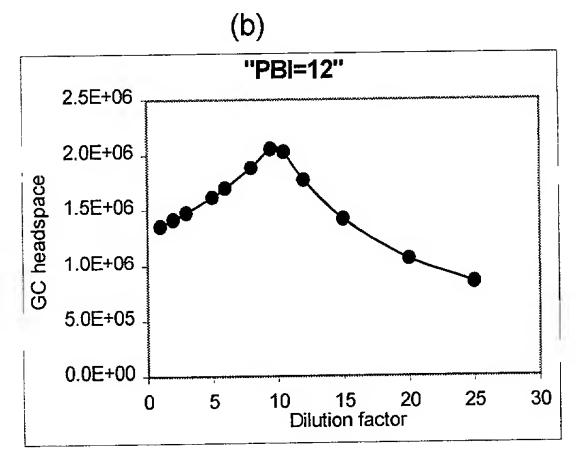
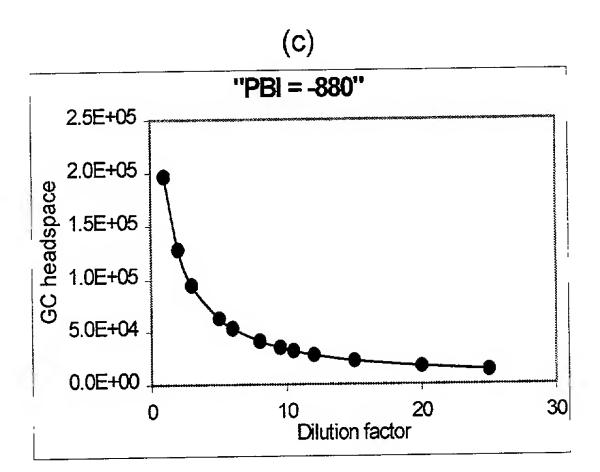


Figure 2: Theoretical Calculations of Fragrance Burst with Dilution





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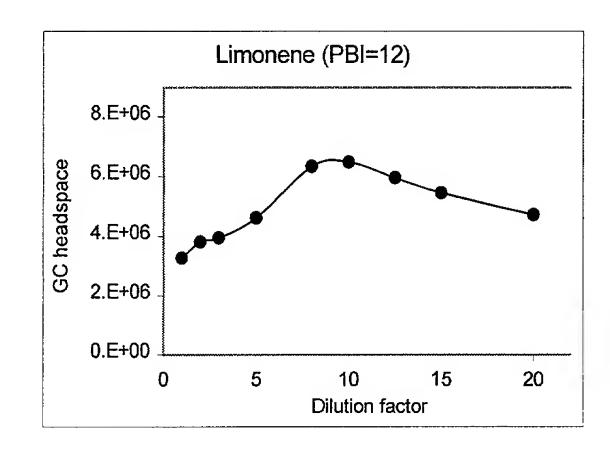


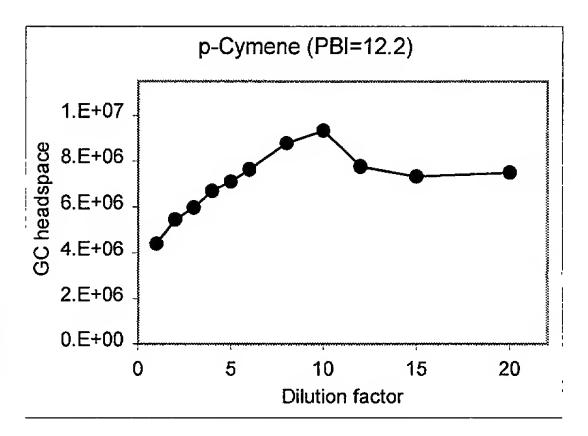
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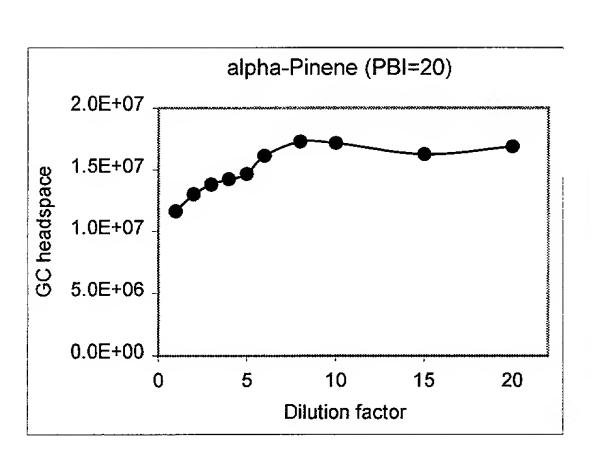
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Figure 3: Fragrance Burst Profiles of Different Perfume Molecules in Surfactant Solution (5% sodium laurate solution)







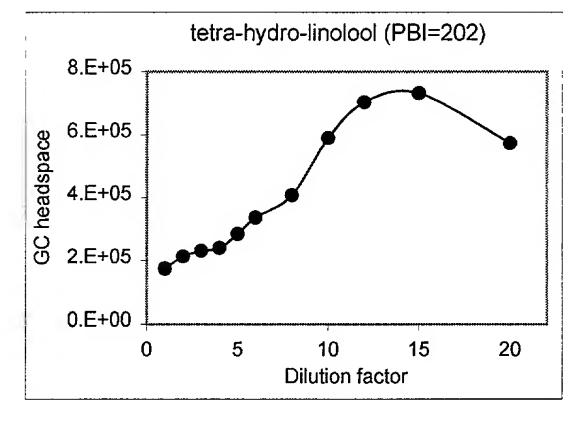
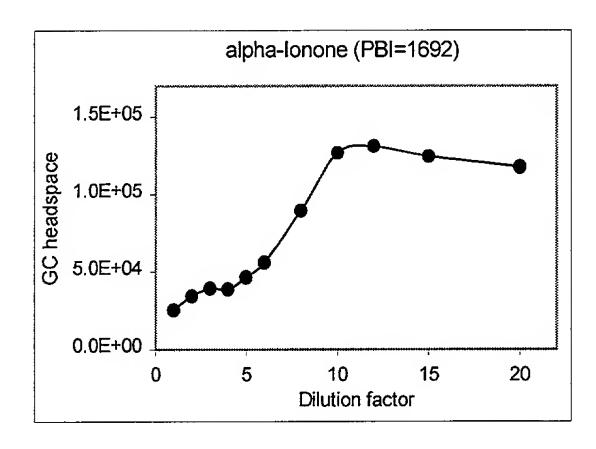
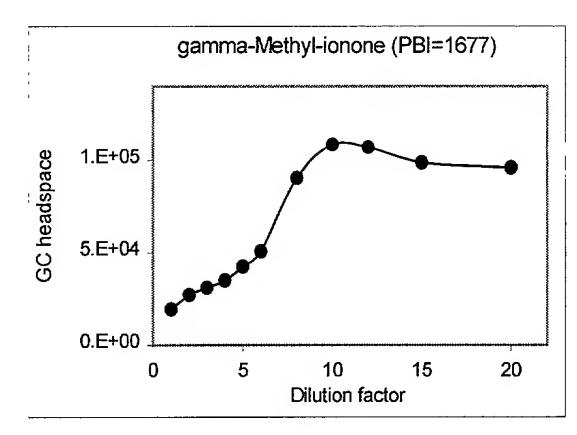
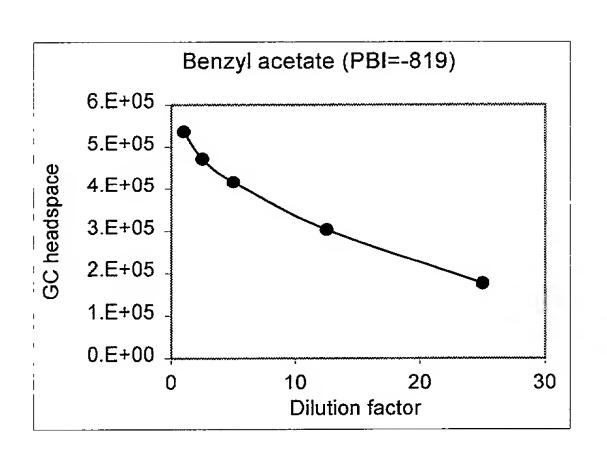


Figure 3: Fragrance Burst Profiles of Different Perfume Molecules in Surfactant Solution (5% sodium laurate solution) (Cont'd)







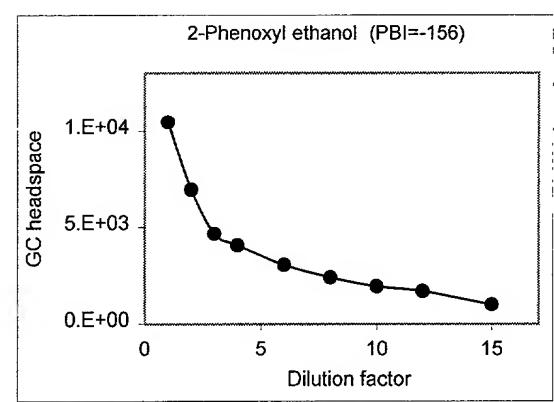
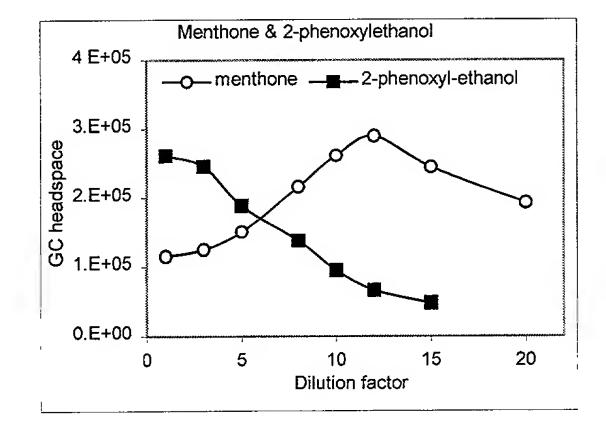
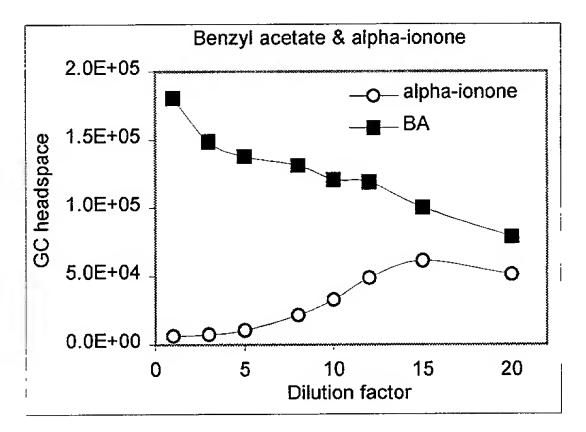


Figure 4: Two-components Fragrance in Shower Liquid that Change Note upon Dilution

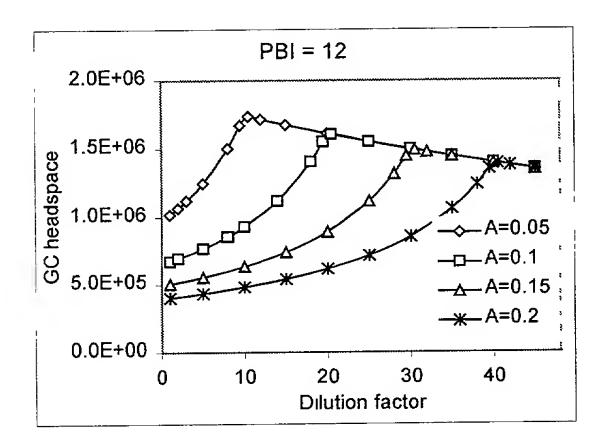




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Figure 5: Theoretical Models of Fragrance Burst with Change in Surfactant Concentration

PBI = 700 1.E+05 --\$--A=0.05 ___A=0.1 8.E+04 <u></u>—<u>A</u>—A=0.15 GC headspace 6.E+04 -*-A=0.2 4.E+04 2.E+04 0.E+00 40 30 20 10 Dilution factor



A: The concentration of the surfactant (wt/wt).

Figure 6: Experimental Results of Fragrance Burst with Changes in Surfactant Concentration

Limonene 2.5E+06 **★**20% Soap ▲ 15% Soap 2.0E+06 □ 10% Soap 5% Soap 1.5E+06 1.0E+06 5.0E+05 0.0E+00 20 Dilution factor 30 40 10 0

gamma-Methyl-ionone

1.2E+05

1.0E+05

8.0E+04

6.0E+04

2.0E+04

0.0E+00

0

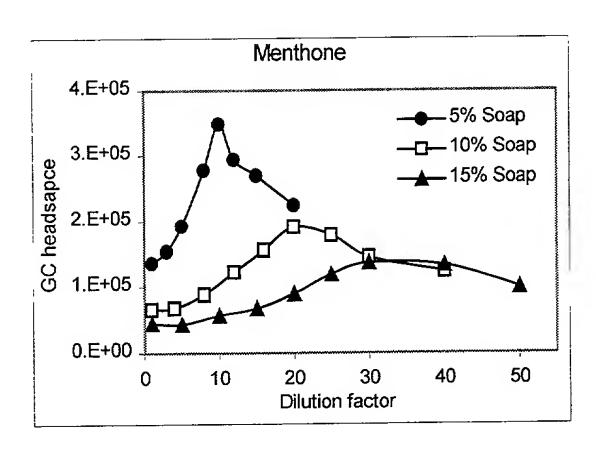
10

20

30

40

Dilution factor



15

Figure 7: Theoretical Model of Fragrance Burst with Change in Surfactant CMC

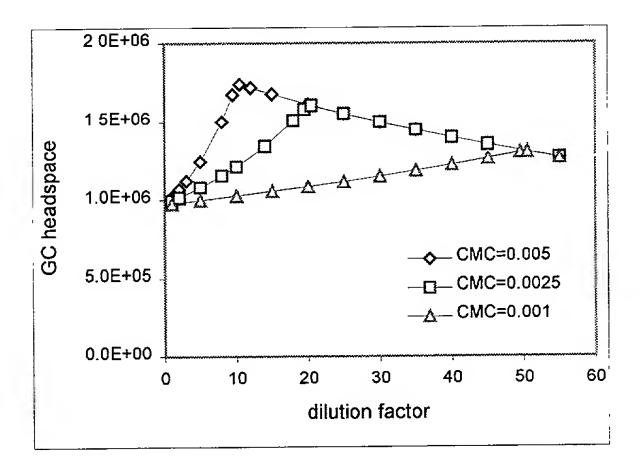
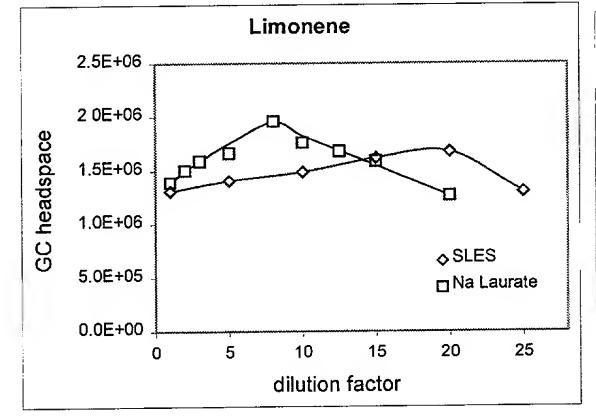


Figure 8: Experimental Results of Fragrance Burst with Change in CMC

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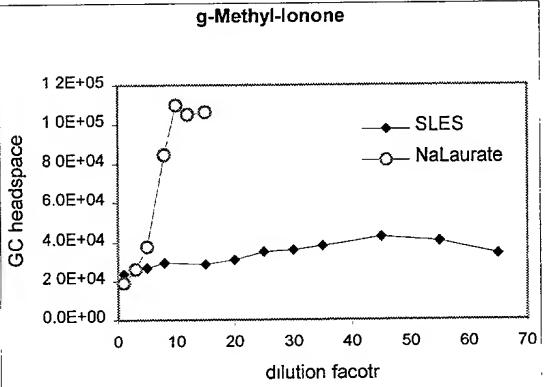


Figure 9: Normalized Dilution Curve for Component in a Perfume Mixture

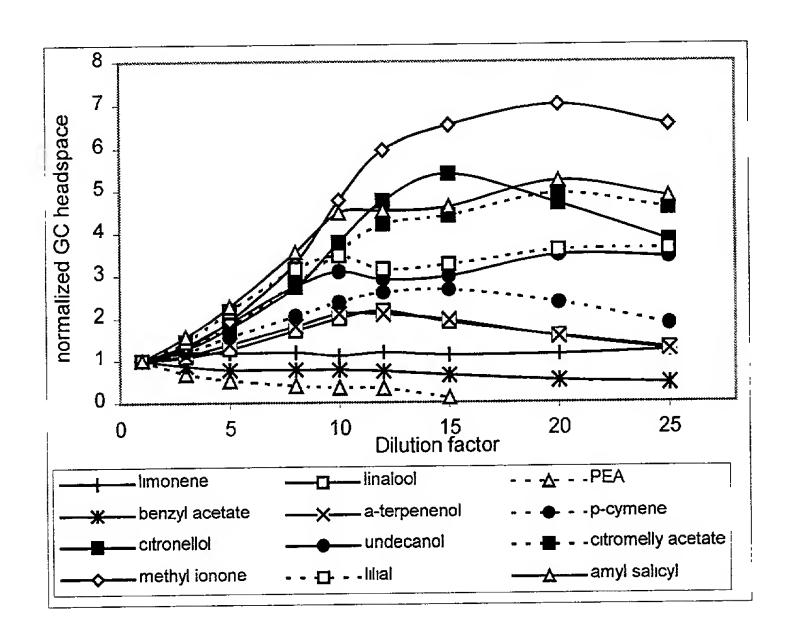


Figure 10: Results of Panel Study of the Single Perfume (γ-methyl-ionone) Systems

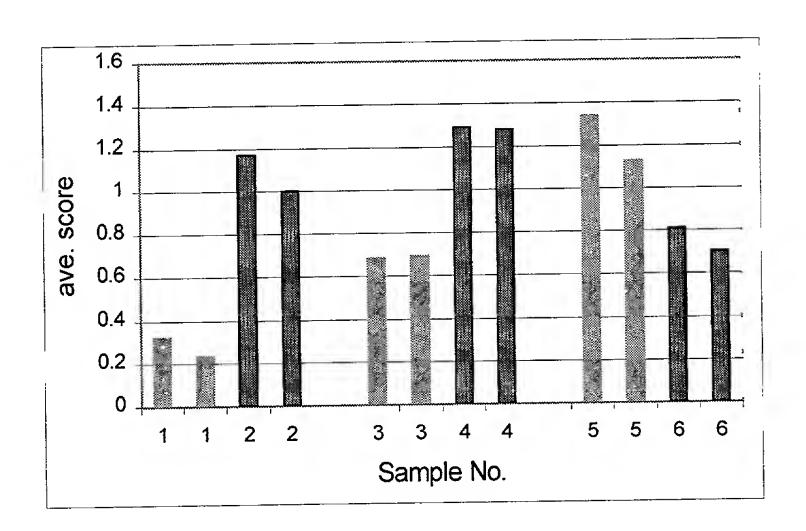


Figure 11: Results of Panel Study of the Multi-component Perfume (menthone, tetrahydrol-linalool, α -ionone, γ -methyl-ionone) Systems

